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News Release

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FOR IMMEDIATE RELEASE

Results of the 2006 NAHMS Dairy Cattle and Dairy Facilities Chemical Usage Survey

HARRISBURG, PA, June 7th, 2007 - - - The agricultural chemical use estimates in this report are based on data compiled from the 2007 General Dairy Management Survey. This survey was a cooperative project between the National Agricultural Statistics Service (NASS) and the National Animal Health Monitoring System within the Animal and Plant Health Inspection Service (APHIS). Data collection for the survey began in early January 2007. The 17 Program States in the survey account for approximately 91 percent of the milk cow inventory in the United States, based on the January 2007 Milk Production release published by the United States Department of Agriculture's National Agricultural Statistics Service (USDA-NASS). Dairy cattle inventories are reprinted in this report from a previous NASS release for informational purposes.

This report provides insecticide use information on dairy cattle and dairy facilities in the 17 selected States. All data refer to the on-farm use of chemical active ingredients contained in insecticides which were applied during the 2006 calendar year. Insecticides are defined as chemical products used for the control of insects. Insecticides are applied to dairy cattle and dairy facilities to control mange/mites, lice, flies, grubs, and other external pests.

Chemical usage on dairy cattle are provided on a rate per head per application and rate per head per year basis. Some dairy cattle received no chemical applications in 2006, whereas, other dairy cattle received multiple applications of the same chemical. In yet other cases, dairy cattle received applications of several different chemicals. The number of times a chemical was applied varied significantly based on product formulation, method of application, and pest stress at particular locations. The rate per head data cannot be used to calculate the actual number of head treated with a particular chemical.

Some active ingredients, such as petroleum distillate, piperonyl butoxide, and xylene are primarily carriers, diluents, synergists, or repellents. These active ingredients are classified by the Environmental Protection Agency (EPA) as pesticides, and are therefore included in this report.

This report excludes pharmaceutical products that treat dairy cattle for internal pests. A pharmaceutical is classified as a drug and is regulated by the Food and Drug Administration (FDA). Pharmaceuticals generally target internal livestock pests such as viruses, bacteria, or worms. Some products can be classified as either a pesticide or a pharmaceutical because they treat both external and internal pests. Examples of dual purpose products are Doramectin and Ivermectin. These products can be applied to dairy cattle internally through oral dosage or injection, or applied externally as a pour-on.

Insecticide use information on chemical applications made to dairy facilities is also included in this report. For survey purposes, milking parlors, pens, drylots, stalls, hutches, sheds, and barns are examples of dairy cattle facilities. Only those chemical applications that were made to the facilities and structures for the control of insects and pests were included. Herbicides, termite chemicals, disinfectants, and sanitizer applications are excluded, as are all rodenticides.

Dairy Cattle: Agricultural Chemical Use, Total of Program States, 2006^{1 2}

Agricultural Chemicals	Rate per Head per Application	Rate per Head per Year	Total Applied
	<i>Grams</i>	<i>Grams</i>	<i>1,000 Pounds</i>
Insecticides:			
Amitraz	3.7	8.0	0.4
Coumaphos	0.2	7.7	2.3
Cyfluthrin	0.3	1.5	1.8
Dichlorvos	0.3	7.9	4.9
Dimethoate	0.4	1.6	0.2
Dipropyl isocinchomeronate	0.1	5.9	0.5
Doramectin	0.1	0.6	0.1
Eprinomectin	3.3	6.3	18.4
Ivermectin	0.2	0.3	0.1
Lambda-cyhalothrin	0.8	1.5	0.2
Malathion	2.8	15.0	1.3
Moxidectin	0.3	0.6	1.2
Naled	4.0	52.3	9.5
Octacide-264	0.1	2.7	0.5
Permethrin	1.0	10.1	42.3
Piperonyl butoxide	0.8	14.9	44.8
Pyrethrins	0.2	3.6	6.5
Tetrachlorvinphos (Z-isomer)	3.2	116.6	37.6
Tricosene	0.1	0.9	0.1
Zeta-cypermethrin	0.9	1.0	0.1

¹ States included are CA, ID, IN, IA, KY, MI, MN, MO, NM, NY, OH, PA, TX, VT, VA, WA, and WI. ² Chlorpyrifos, Clorsulon, Crotoxyphos, Diazinon, Fenthion, Fenvalerate, Methomyl, Pririmiphos-methyl, and S-Methoprene are excluded because total applied is less than 50 pounds or Rate per head is less than .05 grams.

**Dairy Cattle: Agricultural Chemical Insecticide Use,
Total Amount Applied, Program States and Total, 2006**

State	Total Applied
	<i>1,000 Pounds</i>
CA	10.0
ID	6.7
IN	8.8
IA	5.3
KY	2.2
MI	4.9
MN	10.8
MO	3.9
NM	9.1
NY	7.9
OH	5.2
PA	14.8
TX	19.7
VT	20.1
VA	10.8
WA	8.8
WI	24.9
Total	174.0

Dairy Cattle: Agricultural Chemical Use, Pennsylvania, 2006¹

Agricultural Insecticide	Rate per Head per Application	Rate per Head per Year	Total Applied
	<i>Grams</i>	<i>Grams</i>	<i>1,000 Pounds</i>
Insecticides:			
Cyfluthrin	0.2	0.7	0.1
Dichlorvos	0.1	0.9	0.1
Eprinomectin	7.4	11.8	1.9
Moxidectin	0.4	0.6	0.1
Permethin	1.8	8.7	3.6
Piperonyl butoxide	0.3	4.2	1.1
Pyrethrins	0.1	0.9	0.2
Tetrachlorinphos (Z-isomer)	5.5	240.6	7.7

¹ Coumaphos is excluded because total applied is less than 50 pounds and rate per head is less than 0.5 grams.

Dairy Cattle Facilities: Agricultural Chemical Use

Total of Program States, 2006 ^{1 2}

Agricultural Chemical	Total Applied
	<i>1,000 Pounds</i>
Insecticides:	
Cyfluthrin	25.3
Dichlorvos	12.1
Dimethoate	12.7
Esfenvalerate	10.9
Imidacloprid	27.5
Lambda-cyhalothrin	6.5
Malathion	2.1
Methomyl	1.0
Naled	6.8
Ocicide-264	0.4
Permethrin	9.0
Piperonyl butoxide	22.7
Pyrethrins	3.1
Tetrachlorvinphos (Z-isomer)	0.8
Trichlorfon	0.4
Tricosene	5.5

¹ States included are CA, ID, IN, IA, MI, MN, MO, NM, NY, OH, PA, TX, VT, VA, WA, and WI. ² Bomyl and Pripoxyfen are excluded because total applied is less than 50 pounds

Dairy Cattle Facilities: Agricultural Chemical Insecticide Use,
Total Amount Applied, Program States & Total, 2006

State	Total Applied
	<i>1,000 Pounds</i>
CA	7.4
ID	8.1
IN	7.8
IA	14.8
KY	1.3
MI	2.9
MN	12.5
MO	7.0
NM	0.3
NY	10.2
OH	1.6
PA	16.0
TX	34.8
VT	1.0
VA	1.0
WA	1.9
WI	20.5
Total	149.1

Dairy Cattle Facilities: Agricultural Use,
Pennsylvania, 2006 ¹

Agricultural Chemical	Total Applied
	<i>1,000 Pounds</i>
Insecticides:	
Cyfluthrin	0.1
Dichlorvos	0.1
Dimethoate	1.5
Esfenvalerate	3.5
Imidacloprid	0.3
Lambda-cyhalothrin	3.0
Methomyl	0.1
Permethrin	1.2
Piperonyl butoxide	1.8
Tricosene	0.1

¹ Octicide-264, Pyrethrins, and Pripoxyfen were excluded because total applied is less than 50 pounds.

Active Ingredient and Trade Name

The following is a list of the active ingredients included in this report. Also provided are product trade names associated with the listed active ingredients reported in the survey. This list provided as an aid in reviewing pesticide data. The list is not complete for all trade names used and NASS does not mean to imply the use of any specific trade name.

Active Ingredient	Trade Name
Amitraz	Takic E.C.
Chlorpyrifos	Dursban 4E, Durban 44, Warrior Insecticide Ear Tags, Max-Con Ear Tags, MEC Chlorpyrifos Premise Spray, Duration
Clorsulon	Ivomec Plus Injection
Coumaphos	- several -
Crotoxyphos	Purina Lice Powder
Cyfluthrin	- several -
Diazinon	Diazinon 50W, Spectracide 25, Terminator Ear Tag, Warrior Insecticide Ear Tag
Dichlorvos	- several -
Dimethoate	Dimethoate 2.67 EC, Dimethoate 400, Cygon 2-E, Cygon Fly Spray
Dipropyl isocinchom	Farnam Wipe Fly Repellent, Tox-O-Wik Insecticide, Dairy Cattle Spray, Fly foil Spray
Doramectin	Dectomax Pour-on, Dectomax Injectable
Eprinomectin	Eprinex Pour-on, Ivomec Eprinex Pour-On
Esfenvalerate	Suspend 30W, Evercide Esfenvalerate 6.4% CS
Fenthion	Lysoff 7.6% EC, Cutter Blue Ear Tag
Fenvalerate	Ectrin Insecticide Cattle Ear Tag
Imidacloprid	QuickBayt Fly Bait
Ivermectin	Ivomec 1% Injection, Ivomec Pour-On for Cattle, Ivercide, Ivomec Plus Injection, Ivomec Premix for Swine
Lambda-cyhalothrin	- several -
Malathion	- several -
Methomyl	Apache Fly Bait, Golden Malrin Fly Bait, Die Fly (Bait), Stimuki Fly Bait, BlueStreak Fly Bait
Moxidectin	Cydectin
Naled	Dibrom 8 Emulsive, Fly Killer D
Octacide-264	- several -
Permethrin	- several -
Piperonyl butoxide	- several -
Pirimiphos-methyl	Dominator Ear Tags, Double Barrel Ear Tags
Pyrethrins	- several -
S-Methoprene	Altosid, Moorman's IGR Minerals
Tetrachlorvinphos (Z-isomer)	- several -
Trichlorfon	Dylox 80% SP, Dipterex Roach Bait Insecticide
Triscosene	Golden Malrin Fly Bait, Stimukil Fly Bait, QuickBayt Fly Bait, Pre-Empt Fly Bait
Zeta-cypermethrin	Python Ear Tags

Number of Positive Usable Dairy Cattle and Dairy Facilities Chemical Use Reports

C - Dairy Cattle

F - Dairy Facilities

